CENSUS BULLETIN

No. 178.

WASHINGTON, D. C.

June 3, 1902.

AGRICULTURE.

NORTH CAROLINA.

Hon. WILLIAM R. MERRIAM,

Director of the Census.

Sir: I have the honor to transmit herewith, for publication in bulletin form, the statistics of agriculture in the state of North Carolina, taken in accordance with the provisious of section 7 of the act of March 3, 1899. This section requires that—

The schedules relating to agriculture shall comprehend the following topics: Name of occupant of each farm, color of occupant, tenure, acreage, value of farm and improvements, acreage of different products, quantity and value of products, and number and value of live stock. All questions as to quantity and value of crops shall relate to the year ending December thirty-first next preceding the enumeration.

A "farm," as defined by the Twelfth Census, includes all the land, under one management, used for raising crops and pasturing live stock, with the wood lots, swamps, meadows, etc., connected therewith. It includes also the house in which the farmer resides, and all other buildings used by him in connection with his farming operations.

The farms of North Carolina, June 1, 1900, numbered 224,687, and had a value of \$194,655,920. Of this amount \$52,700,080, or 27.1 per cent, represents the value of buildings, and \$141,955,840, or 72.9 per cent, the value of land and improvements other than buildings. On the same date the value of farm implements and machinery was \$9,072,600, and that of live stock, \$30,106,173. These values, added to that of farms, give \$233,834,693, the stock value of farm property."

The products derived from domestic animals, poultry, and bees, including animals sold and animals slaughtered on farms, are referred to in this bulletin as "animal products."

The total value of all such products, together with the value of all crops, is termed "total value of farm products." This value for 1899 was \$89,309,638, of which amount \$20,684,727, or 23.2 per cent, represents the value of animal products, and \$68,624,911, or 76.8 per cent, the value of crops, including forest products cutor produced on farms. The "total value of farm products" for 1899 exceeds that reported for 1889 by \$39,239,108, or 78.4 per cent.

The value of "net farm products," or the "gross farm income," is obtained by deducting from the total value of farm products the value of the products fed to live stock on the farms of the producers. In 1899 the reported value of products fed was \$10,108,890, leaving \$79,200,748 as the gross farm income for that year. The ratio which this latter amount bears to the "total value of farm property" is referred to as the "percentage of gross income upon investment." For North Carolina in 1899 it was 33.9 per cent.

As no reports of expenditures for taxes, interest, insurance, feed for stock, and similar items have been obtained by any census, no statement of net farm income can be given:

The statistics presented in this bulletin will be treated in greater detail in the final report on agriculture in the United States. The present publication is designed to present a summarized advance statement for North Carolina.

Very respectfully,

Chief Statistician for Agriculture.

L & Porsen

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AGRICULTURE IN NORTH CAROLINA.

GENERAL STATISTICS.

The total land surface of North Carolina is 48,580 square miles, or 31,091,200 acres, of which 22,749,356 acres, or 73.2 per cent, are included in farms.

Topographically, the state has three natural divisions: the eastern, middle, and western.

Eastern North Carolina is low, and its coast line is deeply indented by Albemarle Sound, the broad estuaries of the Neuse and Pamlico rivers, and by many creeks. In the northeast are the Great and Little Dismal swamps, which, together with the chain of swamps and peat bogs extending southward through the counties bordering on the ocean and the sound, embrace an area of nearly 3,000,000 acres. Although a large part of this swamp area is at present of little value, much of it may be rendered available for agricultural purposes, by the introduction of drainage-canal systems. In some sections large tracts have already been reclaimed in this manner. The soil in the eastern division is, to a large extent, sandy and barren, although along the courses of the numerous streams the land is remarkably productive.

The middle division of the state, extending back to the mountains, is watered by numerous rivers and is either cultivated or covered with deciduous trees. The surface is undulating, and the soil rich and arable. This division is especially suited for orchards and vineyards.

Western North Carolina includes the mountains and high table-lands, none of which are less than 1,500 feet above tide water. The Appalachian system here reaches its greatest height, and includes the Blue Ridge, the Black, the Smoky, the Iron, and the Unaka mountains. These are all fertile to their summits, and are covered for the most part with magnificent forests. The valleys between the ranges are well watered and very productive. This division is well adapted to grazing, and to the raising of cereals, vegetables, and fruits.

NUMBER AND SIZE OF FARMS.

Table 1 gives, by decades since 1850, the number of farms, the total and average acreage, and the per cent of farm land improved.

TABLE 1.-FARMS AND FARM ACREAGE: 1850 TO 1900.

	Number	NU	NUMBER OF ACRES IN FARMS.							
	of farms.	Total,	Improved,	Unim- proved.	Average.	of farm land im- proved.				
1900 1890 1880 1870 1850 1850	224, 637 178, 359 157, 609 98, 565 75, 203 56, 968	22, 749, 856 22, 651, 896 22, 363, 558 19, 835, 410 23, 762, 969 20, 996, 983	8,827,106 7,828,569 6,481,191 5,258,742 6,517,284 5,458,975	14, 422, 250 14, 823, 827 15, 882, 867 14, 576, 668 17, 245, 685 15, 548, 008	101.3 127.0 141.9 212.0 316.0 368.6	86, 6 84, 6 29, 0 26, 5 27, 4 26, 0				

The number of farms reported in 1900 was nearly four

times as great as the number reported in 1850, and 25.0 per cent greater than in 1890. The total and improved acreages, however, show decreases for the Civil War decade, the loss in the former not having been entirely recovered as yet, though gains are shown for each decade since 1870. The improved acreage recovered more rapidly, having increased 58.3 per cent since 1870, and 6.4 per cent in the last decade. The average size of farms shows a marked decrease for each decade, the number of farms having increased much faster since 1850 than the total acreage. This movement indicates a progressive division of farm holdings, and is in keeping with the steady increase since 1870 in the percentage of improved farm land.

FARM PROPERTY AND PRODUCTS.

Table 2 presents a summary of the principal statistics relating to farm property and products for each census year beginning with 1850.

TABLE 2.-VALUES OF SPECIFIED CLASSES OF FARM PROPERTY, AND OF FARM PRODUCTS: 1850 TO 1000.

YEAR.	Total value of farm property.	Land, improve- ments, and buildings.	imple- ments and machinery.	Live stock.	Farm products.3
1900 1890 1880 1870° 1860 1850	\$283, 834, 693 216, 707, 500 164, 286, 737 104, 287, 161 180, 305, 812 89, 540, 945	\$194, 655, 920 183, 977, 010 185, 793, 602 78, 211, 683 143, 301, 665 67, 891, 766	\$9, 072, 600 7, 183, 210 6, 078, 476 4, 082, 111 5, 873, 942 3, 981, 582	\$30, 106, 173 25, 547, 280 22, 414, 659 21, 993, 967 31, 180, 805 17, 717, 647	\$89, 809, 638 50, 070, 530 51, 729, 611 57, 845, 930

¹ For the year preceding that designated.

² Values for 1873 were reported in depreciated currency. To reduce to specie basis of other years they must be diminished one-fifth.

³ Includes betterments and additions to live stock.

The rapid development of agriculture in the decade from 1850 to 1860; the disastrous effects of the Civil War, from which the state did not entirely recover until between 1880 and 1890; and the steady increase in values since that period, are the most interesting features of the statistics given in the above table.

The increase in the total value of farm property in the last decade was \$17,127,193, or 7.9 per cent. Of this amount, \$10,678,910, or 62.4 per cent, represents the increase in the value of farms; \$4,558,893, or 26.6 per cent, in that of live stock; and \$1,889,390, or 11.0 per cent, in that of implements and machinery. The value of farm products for 1899 exceeds that for 1889 by \$39,289,108, or 78.4 per cent. A part of this gain, and of that in implements and machinery, and in live stock, is doubtless the result of a more detailed enumeration in 1900 than in previous census years.

COUNTY STATISTICS.

Table 3 presents the general agricultural statistics by counties.

TABLE 3.—NUMBER AND ACREAGE OF FARMS, AND VALUES OF SPECIFIED CLASSES OF FARM PROPERTY, JUNE 1, 1900, WITH VALUE OF PRODUCTS OF 1899 NOT FED TO LIVE STOCK, AND EXPENDITURES IN 1809 FOR LABOR AND FERTILIZERS, BY COUNTIES.

	NUMBER O	F FARMS.	ACRES IN	V FARMS,	· v	ALUES OF FAR	M PROPERTY	7.		EXPEND	TURES,
COUNTIES.	Total.	With buildings.	Total.	Improved.	Land and improvements (except buildings).	Buildings.	Imple- ments and machinery.	Live stock.	Value of products not fed to live stock,	Labor.	Fertili- zers.
The State	224, 687	217, 744	22, 749, 356	8, 327, 106	\$141,955,840	\$52,700,080	\$9, 072, 600	\$30, 106, 173	\$ 79, 200, 748	\$ 5, 444, 950	\$1,479,030
Alamance	1 1 880	2, 258	244, 178	97, 229	1, 449, 050	720, 330	133, 640	368, 947	782, 507	33, 440	86,880
Alexander		1, 848	157, 619	65, 576	1, 071, 120	283, 760	67, 680	217, 936	504, 448	12, 580	18,090
Aleghany		1, 341	145, 200	84, 996	1, 416, 710	381, 250	70, 060	354, 335	401, 998	22, 190	5,860
Anson		2, 844	309, 986	116, 084	1, 515, 990	585, 870	119, 240	328, 026	1, 134, 061	81, 120	76,110
Ashe		3, 034	272, 137	154, 575	3, 021, 440	692, 240	100, 320	728, 767	840, 978	45, 180	4,020
Beaufort Bertie Bladen Brunswiek Buncombe	ി ര്മല	2, 322 2, 591 2, 426 1, 366 4, 015	248, 104 341, 428 364, 103 252, 117 348, 644	65, 823 109, 289 68, 788 31, 243 142, 283	$\begin{array}{c} 1,273,480 \\ 1,153,570 \\ 920,720 \\ 500,240 \\ 4,284,110 \end{array}$	575, 930 498, 400 402, 260 253, 160 1, 608, 040	86, 770 102, 160 66, 270 45, 400 158, 970	808, 765 802, 510 247, 621 160, 076 626, 853	844, 678 1, 023, 790 579, 541 480, 681 1, 102, 005	67, 810 155, 150 29, 040 35, 840 72, 560	57, 990 49, 050 25, 180 26, 120 12, 420
Burke.	2, 222	2, 177	222, 551	65, 700	1, 608, 920	429, 390	93, 800	304, 723	589, 208	21,590	12,590
Cabarnis	2, 045	2, 005	209, 125	98, 582	1, 815, 670	649, 360	133, 530	860, 883	908, 886	45,310	86,510
Caldwell	2, 203	2, 146	231, 497	71, 151	1, 756, 000	478, 750	96, 100	814, 926	588, 281	19,180	12,190
Camden	858	838	76, 549	44, 656	619, 360	282, 520	29, 480	121, 140	284, 927	13,980	6,980
Carteret	754	747	74, 751	18, 626	314, 720	188, 050	20, 980	80, 522	162, 648	9,690	10,480
Caswell Catawba Chatham Cherokoe Chowan	2, 647 8, 605 1, 731 833	1, 721 2, 610 8, 530 1, 697 825	243, 737 239, 824 411, 084 208, 359 72, 528	113, 824 116, 379 132, 427 41, 927 84, 972	1, 162, 710 2, 053, 150 1, 640, 460 782, 540 493, 300	627, 280 705, 440 789, 700 210, 580 283, 800	87,540 168,680 149,100 33,870 40,040	273, 406 875, 660 518, 091 236, 271 115, 405	866, 089 879, 456 1, 097, 806 412, 927 873, 579	58, 480 25, 320 45, 000 9, 880 46, 900	54,020 47,800 58,860 560 15,750
Clay	817	765	97, 462	23, 973	451, 300	123, 290	20, 840	136, 289	233, 001	7, 290	480
Clereland	3, 446	3, 840	258, 042	126, 058	2, 509, 240	919, 400	160, 270	488, 886	1, 172, 472	33, 910	67, 560
Columbus	2, 861	2, 815	360, 855	68, 471	1, 167, 150	492, 840	83, 370	290, 764	715, 763	52, 170	46, 940
Craven	1, 725	1, 645	211, 523	55, 986	1, 067, 810	843, 360	62, 150	205, 582	592, 848	85, 960	81, 440
Cumberland	2, 678	2, 624	362, 609	88, 461	1, 553, 810	589, 680	91, 710	885, 244	908, 002	67, 390	50, 760
Currituek	912	888	89, 273	39, 068	620, 890	268, 980	31,480	127,780	298, 961	18, 300	20,510
	229	226	14, 987	2, 619	91, 210	81, 030	7,850	22,766	51, 765	2, 890	2,180
	3,419	3, 350	329, 048	182, 761	2, 497, 260	959, 580	222,050	509,687	1, 141, 430.	34, 710	46,010
	1,742	1, 631	149, 302	68, 650	1, 161, 480	877, 510	82,630	248,369	488, 079	15, 670	14,160
	8,303	3, 168	389, 366	118, 865	1, 626, 390	781, 640	98,790	353,413	1, 079, 204	104, 360	88,780
Durham	1, 548	1, 486	148, 281	49, 303	1, 018, 230	428, 510	56,690	189, 310	491, 891	32, 050	21,860
Edgecombe	2, 284	2, 164	277, 376	189, 426	1, 895, 850	753, 200	122,200	366, 098	1, 650, 094	250, 780	120,260
Forsyth	2, 421	2, 375	228, 432	101, 666	2, 240, 350	915, 010	169,600	873, 052	899, 188	48, 980	50,510
Franklin	3, 867	3, 254	267, 530	117, 900	1, 553, 760	647, 660	111,340	334, 002	1, 294, 280	99, 410	97,420
Gaston	2, 213	2, 140	201, 963	88, 659	1, 994, 000	790, 880	117,090	354, 982	874, 309	85, 810	89,390
Gates	1, 461	1, 441	137, 494	53, 425	671,740	411,510	54, 440	193, 052	528, 348	40, 940	19,080
Graham	782	723	103, 617	18, 860	272,730	72,620	18, 870	104, 591	149, 096	4, 150	130
Granville	3, 135	3, 018	309, 216	118, 420	1,585,840	888,420	106, 420	372, 185	1, 176, 764	128, 910	77,880
Greene	2, 071	1, 716	156, 362	87, 050	1,355,390	488,420	83, 950	288, 196	1, 088, 958	73, 600	82,270
Guilford	3, 497	3, 380	388, 940	149, 228	2,693,270	1,169,180	206, 280	571, 976	1, 216, 294	78, 880	58,810
Halifax	3, 489	3, 371	880, 627	163, 951	2, 087, 450	708, 910	133, 720	460, 690	1, 855, 628	228, 980	98,880
Harnett	2, 316	2, 258	230, 859	70, 179	1, 059, 090	399, 440	81, 540	279, 189	686, 559	38, 850	46,680
Haywood	2, 349	2, 053	251, 587	84, 541	1, 936, 850	627, 470	85, 750	443, 278	613, 851	15, 710	5,450
Henderson	1, 853	1, 805	165, 409	61, 670	1, 497, 850	486, 850	68, 760	260, 054	481, 680	14, 350	6,700
Hertford	1, 788	1, 732	181, 955	68, 324	1, 021, 430	509, 990	66, 320	215, 856	698, 600	73, 180	41,850
Hyde	1,061	1, 040	92,682	42, 677	1, 084, 230	842, 770	46, 990	130, 152	255, 525	26,490	15, 830
Iredell	3,897	3, 789	853,368	159, 174	2, 540, 840	907, 470	196, 970	571, 579	1, 297, 648	57,990	56, 570
Jackson	1,985	1, 888	211,056	55, 778	888, 930	296, 910	42, 510	260, 162	444, 815	14,280	3, 170
Johnston	4,452	4, 878	871,000	167, 889	2, 619, 970	1, 002, 280	177, 480	553, 708	1, 820, 012	121,820	143, 580
Jones	1,226	1, 145	191,028	56, 122	738, 570	239, 960	54, 380	174, 828	476, 804	37,680	26, 780
Lenoir	2; 179	2,023	215, 911	101, 996	1, 625, 520	618, 390	91, 150	291, 455	1, 185, 009	119,810	107, 380
Lineoin	1, 866	1,831	180, 482	84, 218	1, 489, 450	488, 880	106, 210	298, 884	681, 111	20,590	82, 060
McDowell	1, 827	1,788	189, 569	47, 420	1, 247, 160	275, 670	43, 420	212, 073	487, 162	11,810	8, 000
Macon	1, 888	1,841	213, 637	55, 585	887, 910	317, 050	45, 410	269, 776	436, 144	14,850	910
Madison	3, 382	3,249	228, 718	100, 621	1, 577, 210	509, 090	61, 680	419, 048	724, 266	19,210	5, 320
Martin	1,689	1, 624	201, 719	72, 648	894, 910	404, 400	66, 940	215, 929	787, 747	118,020	68, 680
	4,190	4, 099	315, 414	173, 204	4, 150, 720	1, 317, 490	232, 690	708, 286	1, 859, 390	152,760	108, 940
	2,287	2, 230	178, 972	66, 562	1, 341, 650	409, 720	47, 020	823, 068	598, 668	11,380	410
	1,564	1, 552	227, 844	51, 644	754, 480	303, 080	57, 500	196, 713	498, 019	80,610	23, 200
	2,773	2, 784	369, 007	88, 351	1, 351, 020	635, 310	106, 560	348, 105	857, 258	55,250	86, 430
Nash New Hanover Northampton Onslow Orange	3, 237	8,116	308, 817	119, 988	1, 668, 770	691, 480	124, 460	364, 138	1, 479, 929	126, 810	148, 960
	379	368	49, 581	9, 728	346, 530	138, 000	15, 650	49, 875	148, 212	80, 950	11, 590
	2, 837	2,722	251, 867	126, 873	1, 237, 440	617, 150	109, 160	342, 970	1, 235, 847	104, 490	53, 360
	1, 632	1,581	268, 826	62, 864	698, 650	812, 910	45, 790	184, 825	420, 888	25, 970	12, 170
	2, 044	1,985	214, 346	78, 539	959, 160	519, 680	77, 660	255, 727	660, 866	31, 840	27, 110
Pamileo- Pasquotank Pender Pender Person Person	813 1, 125 1, 975 1, 257 1, 971	796 1, 071 1, 906 1, 222 1, 924	78, 498 80, 862 295, 248 96, 912 228, 904	22, 333 49, 094 52, 090 50, 524 86, 119	386,810 706,070 939,190 781,670 967,190	165, 560 315, 540 386, 060 384, 150 471, 610	26, 320 55, 350 59, 120 54, 790 70, 930	92, 906 169, 951 211, 674 231, 058 234, 336	282, 169 393, 454 473, 415 578, 013 768, 898	18,860 26,410 44,580 61,500 58,840	28, 020 15, 840 22, 670 18, 520 55, 160
Pitt	4, 022	8,728	855, 152	.151, 847	2, 752, 200	954, 080	147, 280	481, 762	2, 173, 929	262, 040	166, 910
	1, 048	1,017	100, 499	30, 537	633, 820	191, 350	84, 170	131, 487	306, 281	8, 470	6, 810
	8, 739	3,691	481, 754	140, 507	2, 252, 100	928, 100	281, 540	688, 418	1, 039, 355	88, 000	61, 890
	1, 462	1,441	180, 504	57, 598	803, 190	290, 110	68, 180	194, 518	682, 746	56, 050	58, 180
	4, 848	4,764	498, 178	174, 801	3, 525, 900	1, 116, 980	190, 840	563, 616	2, 166, 481	199, 620	247, 280
Rockirgham Rowan Rutheriord Sampson Scotland	3, 196 3, 082 3, 365 3, 783 1, 080	8, 151 8, 021 8, 207 8, 699 1, 061	336, 719 295, 184 274, 412 487, 864 127, 403	115, 874 132, 196 99, 511 148, 886 61, 442	2,155,400 2,248,190 1,999,060 2,200,770 1,752,380	863, 460 821, 690 596, 820 886, 580 417, 320	142,710 200,040 114,720 146,350 72,030	425, 208 490, 008 381, 326 484, 794 175, 999	1, 358, 600 1, 286, 510 876, 433 1, 259, 255	85, 980 45, 290 18, 850 64, 840 72, 270	97, 270 60, 880 88, 680 82, 840 86, 410

Table 3.—NUMBER AND ACREAGE OF FARMS, AND VALUES OF SPECIFIED CLASSES OF FARM PROPERTY, JUNE 1, 1900. WITH VALUE OF PRODUCTS OF 1899 NOT FED TO LIVE STOCK, AND EXPENDITURES IN 1899 FOR LABOR AND FERTILIZERS, BY COUNTIES—Continued.

	NUMBER C	F FARMS.	ACRES IN FARMS.		V.	ALUES OF FAR	M PROPERTY	7.		EXPENDITURES.	
COUNTIES.	Total.	With build- ings.	Total.	Improved.	Land and improvements (except buildings).	Buildings.	Imple- ments and machinery.	Live stock.	Value of products not fed to live stock.	Labor.	Fertili- zers.
Stanly Stokes Surry Swain Transylvania	8, 284 8, 523 1, 225 1, 008	1,963 3,130 3,458 1,171 960	215, 018 256, 521 291, 989 164, 439 112, 781	85, 466 88, 648 90, 467 27, 036 29, 784	\$986, 280 1,754, 870 1, 935, 840 620, 480 791, 320	\$421, 210 780, 920 787, 520 176, 210 240, 280	\$113, 900 114, 430 118, 870 26, 310 33, 030	\$290, 675 354, 590 875, 878 156, 519 156, 972	\$748, 885 1, 017, 766 870, 521 268, 209 215, 142	\$40,520 32,130 21,520 7,730 9,910	\$26, 929 59, 439 48, 060 210 3, 248
Tyrrell	657	649	62, 260	19,840	225, 710	125,770	23, 100	68, 354	163, 999	11, 170	7,718
Union	3, 793	8, 787	316, 097	149,143	2, 057, 870	630,400	180, 990	520, 553	1, 367, 085	50, 070	100,928
Vance	1, 680	1, 595	149, 754	63,613	888, 900	406,070	56, 030	184, 319	619, 902	58, 460	48,318
Wake	5, 188	5, 029	476, 608	195,548	8, 252, 640	1,371,130	218, 600	655, 241	2, 163, 811	155, 300	128,768
Warren	2,616	2, 544	214, 142	89, 638	1, 096, 210	491, 290	77, 330	251, 892	851, 982	59, 830	63,689
Washington	970	943	85, 891	86, 046	540, 770	269, 160	48, 800	115, 601	364, 169	44, 920	10,799
Watauga	2,170	2, 105	208, 559	88, 423	1, 829, 830	484, 070	66, 980	401, 127	544, 798	5, 710	2,319
Wayne	8,291	3, 164	837, 162	145, 199	2, 507, 520	860, 020	138, 020	394, 185	1, 679, 462	135, 690	126,919
Wilkes	4, 387	4, 277	418, 393	182, 307	2,197,590	644, 390	116,590	454,070	876, 444	34,060	16, 343
	2, 565	2, 470	212, 686	99, 762	1,952,600	619, 280	98,910	832,691	1, 520, 510	120,300	134, 662
	2, 242	2, 207	207, 294	77, 907	1,583,690	489, 860	98,570	279,750	588, 359	22,880	20, 863
	2, 023	1, 956	158, 309	53, 120	1,119,080	319, 460	86,500	281,405	469, 821	20,320	1, 243

Aside from Richmond, in which a territorial change has been made, but three counties, Carteret, Chatham, and Currituck, report decreases in the number of farms since 1890. In the remaining counties the rates of increase were about the same as that shown in the state total—25.9 per cent. Pitt county reports the greatest relative gain, the number of its farms having almost doubled.

Increases in the total farm acreages are reported for about one-half of the counties, and almost two-thirds show increased areas of improved land. A large proportion of the counties reporting increases in improved land are in the southwestern part of the state. The average size of farms for the state is 101.3 acres, ranging in the several counties from 75 to 150 acres. The average value of the farms of the state is \$866.54. In nearly one-fourth of the counties it is less than \$600. More than two-thirds of the counties show gains since 1890 in the value of farms.

The increase since 1890 in the value of implements and machinery has been relatively greater and more general than that in any other item of farm property. Only six counties, Currituck, Durham, Gates, Granville, Macon, and Warren, report a decrease, and in most instances this has been accompanied by a decrease in the value of live stock. This latter value, however, has increased generally in the past ten years.

The amount paid for labor in 1899 varied greatly in different sections of the state, the lowest expenditure per farm being reported from the mountainous western border counties, and the highest from the eastern coast counties, where diversified farming prevails.

For fertilizers, the average expenditure per farm was approximately \$20. The minimum of less than \$1 per farm was found in a few extreme western counties, where corn was the principal crop, and the maximum of \$80 per farm, in Scotland county, the average in the central counties being about \$30 per farm.

FARM TENURE.

Table 4 gives a comparative exhibit of farm tenure for 1880, 1890, and 1900. The farms operated by tenants are divided into two groups, designated as farms operated by "cash tenants" and "share tenants." These groups comprise, respectively: (1) Farms operated by individuals who pay a rental in cash or a stated amount of labor or farm produce; (2) farms operated by individuals who pay as rental a stated share of the products.

In Table 5 the tenure of farms for 1900 is given by race of farmer. The farms under the classification "owner" in Table 4 are subdivided in Table 5 into groups, designated as farms operated by "owners," "part owners," "owners and tenants," and "managers." These groups comprise, respectively: (1) Farms operated by individuals who own all the land they cultivate; (2) farms operated by individuals who own a part of the land and rent the remainder from others; (3) farms operated under the joint direction and by the united labor of two or more individuals, one owning the farm or a part of it, and the other, or others, owning no part, but receiving for supervision or labor a share of the products; and (4) farms operated by individuals who receive for their supervision and other services a fixed salary from the owners.

TABLE 4.—NUMBER AND PER CENT OF FARMS OF SPECIFIED TENURES: 1880 TO 1900.

YEAR.	Total		OF FARM		PER CENT OF FARMS OPER ATRO BY-			
	number of farms.	Owners,1	Cash tenants.	Share tenants.	Owners.1	Cash tenants.	Share tenants.	
1900 1890 1880	224, 637 178, 359 157, 609	181, 629 117, 469 104, 887	19,916 10,572 8,644	78,092 50,318 44,078	58. 6 65. 9 66. 5	8, 9 5, 9 5, 5	82.5 28.2 28.0	

¹ Including "part owners," "owners and tenants," and "managers."

TABLE 5.—NUMBER AND PER CENT OF FARMS OF SPECIFIED TENURES, JUNE 1, 1900, CLASSIFIED BY RACE OF FARMER.

PART 1.-NUMBER OF FARMS OF SPECIFIED TENURES.

TARLE 1, TO SERVICE OF PARISHS OF DE ISOTPEDD TENTOLOGIS.										
RAOE.	Total number of farms.	Owners.	Part owners.	Owners and tenants.	Man- agers.	Cash tenants.	Share tenants,			
The State	224,637	113,524	15, 454	1,594	1,057	19,916	73, 092			
White Colored	169,778 54,864	100, 320 18, 204	11, 224 4, 230	1, 508 86	936 121	9,585 10, 381	46, 200 26, 892			
Indian Negro	868 53, 996	642 12,562	33 4, 197	2 84	2 119	63 10, 268	126 26, 766			
PART 2	PER C	ENT OF	FARMS (OF SPEC	IFIED T	ENURES	•			
The State	100.0	5 0, 5	6.9	0.7	0.5	8.9	32. 5.			
White	100, 0 100, 0	59.1 24.1	6.6 7.7	0.9	0.6 0.2	5. 6 18 . 8	27, 2 49, 0			
Indian Negro	100. 0 100. 0	74.0 23.3	3.8 7.8	0.2 0.1	0.2	7.3 19.0	· 14.5 49.6			

In the period from 1880 to 1900 the total number of farms increased 42.5 per cent, the greater part of the increase taking place in the last decade. The number of farms operated by owners has increased 25.5 per cent since 1880; by cash tenants, 130.4 per cent; and by share tenants, 65.8 per cent. The percentages shown in Table 4 indicate that the number of farms operated by owners has not increased so rapidly since 1880 as the number operated by tenants.

Of the farms of the state, 75.6 per cent are operated by white farmers and 24.4 per cent by colored farmers. Of the white farmers, 66.6 per cent own all or a part of the farms they operate, and 33.4 per cent operate farms owned by others. For the colored farmers, the corresponding percentages are 32.0 and 68.0. Of the colored farmers, 98.4 per cent are negroes, of whom nearly one-third own all or a part of their farms, and the remainder are Indians, more than three-fourths of whom are owners.

The ratio which the number of farms rented for cash bears to the total number of tenant farms, varies with the race of the tenants and the kind of crops grown. In the western counties, where diversified farming prevails and practically all the farmers are white, share tenants greatly outnumber cash tenants; but in the leading cotton-growing counties, where approximately one-half of the farmers are colored, the number of cash and share tenants are about equal. The greater number of colored farmers in the cotton counties are classed as cash tenants, but where the local contract system prevails the distinguishing line between cash and share tenure is hard to draw.

No previous census has reported the number of farms operated by "part owners," "owners and tenants," or "managers," but it is believed that the number conducted by the last-named class is constantly increasing.

Tables 6 and 7 present the principal statistics for farms classified by race of farmer and by tenure.

TABLE 6.—NUMBER AND ACREAGE OF FARMS, AND VALUE OF FARM PROPERTY, JUNE 1, 1900, CLASSI FIED BY RACE OF FARMER, AND BY TENURE, WITH PERCENTAGES.

RACE OF FARMER	Num-	NUMBI	ER OF ACRES	IN	VALUE OF FARM PROPERTY,		
AND TENURE.	ber of farms.	Average.	Total,	Per cent.	Total,	Per cent.	
The State	224,637	101,3	22, 749, 356	100,0	\$233, 834, 693	100, 0	
White farmers Negro farmers Indian farmers	169, 778 58, 996 868	116, 6 53, 6 70, 2	19, 794, 218 2, 894, 210 60, 928	87. 0 12. 7 0. 3	204, 806, 528 28, 458, 176 509, 989	87. 6 12. 2 0. 2	
Owners Part owners Owners and tenants Managers Cash tenants Share tenants	113,524 15,454 1,594 1,057 19,916 73,092	126, 4 95, 2 158, 6 397, 8 80, 5 63, 8	14,345,746 1,471,445 244,859 420,450 1,602,859 4,664,017	63.1 6.5 1.1 1.8 7.0 20.5	144, 032, 808 15, 467, 836 2, 489, 429 6, 099, 326 15, 748, 869 49, 996, 425	61.6 6.6 1.1 2.6 6.7 21.4	

TABLE 7.—AVERAGE VALUES OF SPECIFIED CLASSES OF FARM PROPERTY, AND AVERAGE GROSS INCOME PER FARM, WITH PER CENT OF GROSS INCOME ON TOTAL INVESTMENT IN FARM PROPERTY, CLASSIFIED BY RACE OF FARMER AND BY TENURE.

	AVI	erage v	ALUES PER	FARM (OF		
	Farm	property		Per cent of gross income			
RACE OF FARMER, AND TENURE.	Land and im- prove- ments (except build- ings).	Build- ings.	Imple- ments and ma- chinery,	Live stock.	Gross income (products of 1899 not fed to live stock).	on total invest-	
The State	\$632	\$235	\$40	\$134	\$353	88.9	
White farmers Negro farmers Indian farmers	728 349 393	281 92 94	48 17 19	155 68 81	386 274 238	82, 0 52, 0 89, 7	
Owners Part owners Owners and tenants Managers Cash tenants Share tenants	739 604 912 3,454 508 458	308 220 377 1,661 147 124	54 41 69 196 27 21	168 136 204 459 109 81	389 348 443 1, 310 320 290	80. 7 84. 8 28. 3 22. 7 40. 5 42. 4	

Approximately, one-fourth of the farms of the state are operated by negro farmers. Their farms, however, comprise slightly more than one-eighth of the total farm acreage of the state, and represent, in value, less than one-eighth of the total farm property. This indicates that the holdings of colored farmers are small, the average size of their farms being but 53.6 acres compared with 116.6 acres for white farmers. The average values per farm of their land, buildings, implements and machinery, and live stock, are correspondingly low. On the other hand it appears from Table 7 that they obtained in 1899 a higher per cent of gross income on their investments in farm property than did white farmers.

This apparent anomaly is traceable, in general, to certain distinguishing racial characteristics, and, in particular, to the contract system under which nearly all negro tenants lease their lands. The first point relates to the recognized tendency on the part of the more progressive white farmer to constantly improve his property, especially

his buildings and fences, thus adding to its market value, although not materially increasing its productive capacity per acre. The colored farmer, on the other hand, adds comparatively little to his fixed capital in the way of improvements, and his income per acre naturally represents a higher percentage of the capital invested than in the case of the white farmer. In addition, under the prevailing contract system, the negroes lease small tracts of the best and most highly improved land of the plantations, which they cultivate under the supervision of the land owner or his hired manager. This land appears in the census reports as farms of negro tenant farmers. Unimproved and less productive tracts of land constitute the greater part of the farms of the white plantation owners as reported by the census. The white landlord commonly owns the greater number of the working animals and most of the implements and machinery used by his colored tenants. These being kept for the most part on the farm where the landlord resides, were reported as part of his property, while the products obtained through their use were reported under the names of the tenants.

The above considerations, it is believed, not only explain the high per cent of gross income shown for the negro farmers, but also the low rates shown for managers and owners as compared with those given for cash and share tenants. It is evident, therefore, that a high rate of gross income on investment can not properly be construed as proof of superior farm management.

FARMS CLASSIFIED BY AREA.

Tables 8 and 9 present the principal statistics for farms classified by area.

TABLE 8.—NUMBER AND ACREAGE OF FARMS, AND VALUES OF FARM PROPERTY, JUNE 1, 1900, CLASSIFIED BY AREA, WITH PERCENTAGES.

AREA.	Num- ber of	NUMBE	ER OF ACRES	VALUE OF FARM PROPERTY.		
ARES.	farms,	Average.	Total.	Per cent.	Total.	Per cent.
The State	224, 637	101.3	22,749,856	100.0	\$233, 834, 693	100.0
Under 3 acres	55, 028	1,9 6,1 13.8 31.4 68.0	2, 252 69, 345 285, 943 1, 880, 512 3, 742, 478	(1) 0.3 1.3 8.3 16.5	318, 525 2, 758, 498 6, 170, 124 29, 158, 570 46, 605, 601	0.1 1.2 2.6 12.5 19.9
100 to 174 acres 175 to 259 acres 260 to 499 acres 500 to 999 acres 1,000 acres and over	17, 012 11, 224 3, 275	125. 2 207. 6 341. 4 640. 9 1,888. 5	5,514,229 8,581,878 3,882,180 2,098,818 1,792,226	24, 2 15, 5 16, 8 9, 2 7, 9	58, 048, 386 83, 714, 851 82, 494, 046 14, 859, 701 9, 711, 391	24.8 14.4 18.9 6.4 4.2

¹ Less than one-tenth of 1 per cent.

TABLE 9.—AVERAGE VALUES OF SPECIFIED CLASSES OF FARM PROPERTY, AND AVERAGE GROSS INCOME PER FARM, WITH PER CENT OF GROSS INCOME ON TOTAL INVESTMENT IN FARM PROPERTY, CLASSIFIED BY AREA.

						i i	
	. AV						
	Farm	property	1900.	Gross	Per cent of gross income		
AREA.	Land and im- prove- ments (except build- ings).	Build- ings,	Imple- ments and ma- chinery.	Live stock.	income (products of 1899 not fed to live stock),	on total invest- ment in farm property.	
The State	\$632	\$235	\$10	\$134	\$ 353	83.9	
Under 3 acres 3 to 9 acres 10 to 19 acres 20 to 49 acres 50 to 99 acres 177 to 259 acres 260 to 499 acres 50 to 99 acres 1,000 acres and over 1,000 acres and over 1,000 acres and over 1	281 501 799 1,226	137 94 84 109 189 293 439 641 965 2,186	8 10 12 20 34 53 80 108 158 303	28 35 49 77 123 173 237 812 430 746	75 88 138 248 327 427 566 755 1,115 1,950	28.2 36.4 46.2 50.9 38.7 32.4 28.5 26.1 24.6 19.1	

The group of medium-sized farms, containing from 100 to 174 acres each, comprises nearly one-fourth of the total farm acreage, and the same proportion of the total value of farm property.

In general, the average values of the different forms of farm property shown in Table 9 rise in unbroken series as the farms increase in size. The relatively high value of buildings on farms under 3 acres, forms the only striking exception to this rule. For this group of farms values are disproportionately high, as it contains nearly half of the florists' establishments of the state and a number of city dairies. The incomes from these industries depend less upon the acreage of land used, than upon the amount of capital invested in buildings and implements and the amounts expended for labor and fertilizers.

The average gross incomes per acre for the various groups classified by area are as follows: Farms under 3 acres, \$39.89; 3 to 9 acres, \$14.46; 10 to 19 acres, \$9.97; 20 to 49 acres, \$7.89; 50 to 99 acres, \$4.82; 100 to 174 acres, \$3.41; 175 to 259 acres, \$2.72; 260 to 499 acres, \$2.21; 500 to 999 acres, \$1.74; and 1,000 acres and over, \$1.03.

FARMS CLASSIFIED BY PRINCIPAL SOURCE OF INCOME.

In Tables 10 and 11 farms are classified by principal source of income. If the value of the hay and grain raised on any farm exceeds that of any other crop and constitutes at least 40 per cent of the total value of products

not fed to live stock, the farm is classified as a "hay and grain" farm. If vegetables are the leading crop, constituting 40 per cent of the value of the products, it is a "vegetable" farm. The farms of the other groups are classified in accordance with the same general principle. "Miscellaneous" farms are those whose operators do not derive 40 per cent of their income from any one class of farm products. Farms with no income in 1899 are classified according to the agricultural operations upon other farms in the same locality.

TABLE 10.—NUMBER AND ACREAGE OF FARMS, AND VALUE OF FARM PROPERTY, JUNE 1, 1900, CLASSIFIED BY PRINCIPAL SOURCE OF INCOME, WITH PERCENTAGES.

PRINCIPAL SOURCE	Num- ber of	NUMBI	ER OF AURES	3 IN	VALUE OF FARM PROPERTY.					
OF INCOME.	farms,	Average.	Total.	Per cent.	Total.	Per cent.				
The State	224, 637	101, 3	22, 749, 356	100,0	\$233,834,693	100.0				
Hay and grain Vegetables Fruit Live stock Jairy produce Tobacco Cotton Rice Sugar Flowers and plants Nursery products Miscellaneous	8,944 2,191 23,607 917 22,626 48,896 412 23 15	97. 8 75. 8 107. 4 116. 8 115. 5 94. 2 87. 1 111. 8 50. 5 7. 9 97. 6 110. 5	4, 868, 214 299, 039 235, 258 2, 756, 147 105, 898 2, 131, 698 4, 260, 431 46, 068 1, 368 119 2, 441 8, 542, 690	19, 2 1, 3 1, 0 12, 1 0, 5 9, 4 18, 7 0, 2 (1) (1) (1) 87, 6	48, 643, 280 8, 790, 82 2, 755, 371 27, 621, 676 1, 994, 126 21, 902, 127 48, 522, 483 568, 507 12, 578 67, 095 100, 585 77, 856, 092	20.8 1.6 1.2 11.8 0.9 9.4 20.8 0.2 (1) (1) (1) (3) 33.3				

¹ Less than one-tenth of 1 per cent.

TABLE 11.—AVERAGE VALUES OF SPECIFIED CLASSES OF FARM PROPERTY, AND AVERAGE GROSS INCOME PER FARM, WITH PER CENT OF GROSS INCOME ON TOTAL INVESTMENT IN FARM PROPERTY, CLASSIFIED BY PRINCIPAL SOURCE OF INCOME.

	AVE	AVERAGE VALUES PER FARM OF-							
	Farm	property	Gross	Per cent of gross income					
PHINCIPAL SOURCE OF INCOME.	Land and im- prove- ments (except build- ings).	Build- ings.	Imple- ments and ma- chinery.	Live stock.	income (products of 1899 not fed to live stock).	on total			
The State	\$ 632	\$2 35	\$40	\$184	\$353	88.9			
Hay and grain Vegetables Fruit Live stock Dairy produce Tobacco Cotton Rice Sugar Flowers and plants Mursery products Miscellaneous	765 681 1,124 566 682 944 289	227 260 312 258 635 245 200 289 155 1,750 1,122 242	44 37 41 42 87 38 39 46 35 41 197 39	122 108 140 189 329 119 121 101 101 43 43 152 135	292 364 461 273 564 486 405 276 162 1,682 5,188 332	26.8 87.8 36.6 23.4 25.9 50.2 40.8 20.0 29.7 37.6 129.0			
***************************************	·	i	ŀ	I	I I	il .			

For the several classes of farms, the average values per acre of products not fed to live stock are as follows: Farms whose operators derive their principal income from flowers and plants, \$212.05; nursery products, \$53.14; tobacco, \$5.16; dairy produce, \$4.88; vegetables, \$4.80; cotton, \$4.64; fruit, \$4.29; hay and grain, \$2.99; sugar, \$2.73; rice, \$2.47; and live stock, \$2.34. In computing

these averages, the total area of the farms is used, and not the acreage devoted to the crop from which the principal income is derived.

The wide variations shown in the averages and percentages of gross income are largely due to the fact that, in computing gross income no deductions are made for expenditures. For florists' establishments and nurseries, the average expenditure for such items as labor and fertilizers represents a far greater percentage of the gross income than in the case of "live-stock" and "hay and grain" farms. If it were possible to present the average net income, the variations shown would be comparatively slight.

FARMS CLASSIFIED BY REPORTED VALUE OF PRODUCTS NOT FED TO LIVE STOCK.

Tables 12 and 13 present data relating to farms classified by the reported value of products not fed to live stock.

TABLE 12.—NUMBER AND ACREAGE OF FARMS, AND VALUE OF FARM PROPERTY, JUNE 1, 1900, CLASSIFIED BY REPORTED VALUE OF PRODUCTS NOT FED TO LIVE STOCK, WITH PERCENTAGES.

	Num-	NUMBI	ER OF ACRES	VALUE OF FARM PROPERTY.		
STOCK.	T FED TO LIVE ber of farms.		Total.	Per cent.	Total.	Per cent.
The State	224, 637	101.3	22,749,356	100.0	\$233, 834, 693	100.0
\$0. \$1 to \$49 \$50 to \$99 \$100 to \$249 \$250 to \$199 \$500 to \$999 \$1,000 to \$2,499 \$2,500 and over	1, 268 12, 590 21, 855 74, 896 72, 989 32, 600 7, 470 1, 024	49, 8 31, 6 43, 2 66, 8 105, 7 170, 9 314, 8 729, 8	62, 886 397, 850 944, 760 4, 967, 125 7, 706, 640 5, 571, 414 2, 351, 842 746, 839	0.8 1.7 4.2 21,8 88.9 24.5 10,8 8.8	588, 050 3, 296, 660 7, 710, 840 44, 688, 610 76, 534, 713 62, 449, 580 28, 467, 030 10, 154, 260	0.2 1.4 8.3 19.1 32.7 26.7 12.2 4.4

TABLE 13.—AVERAGE VALUES OF SPECIFIED CLASSES OF FARM PROPERTY, AND AVERAGE GROSS INCOME PER FARM, WITH PER CENT OF GROSS INCOME ON TOTAL INVESTMENT IN FARM PROPERTY, CLASSIFIED BY REPORTED VALUE OF PRODUCTS NOT FED TO LIVE STOCK.

	AVI					
VALUE OF PRODUCTS NOT FED TO LIVE STOCK.	Farm	propert	Guage	Per cent of gross income		
	Land and im- prove- ments (except build- ings).	Build- ings.	Imple- ments and ma- chinery,	Live stock,	Gross income (products of 1899 not fed to live stock).	on total
The State	\$632	\$235	\$40	\$1 94	\$ 358	88.9
\$0 \$1 to \$49 \$50 to \$99 \$100 to \$249 \$250 to \$499 \$500 to \$99 \$1,000 to \$2,499 \$2,500 and over	368 634 1, 155	88 60 79 126 232 442 918 2, 505	10 7 11 20 40 80 161 484	35 28 45 83 143 239 439 995	27 79 177 361 684 1,412 4,581	10. 4 22. 5 29. 7 84. 4 85. 7 43. 1 46. 2

Some of the farms reporting no income for 1899 were fruit farms with trees or vines too young to bear, and others were the country homes of business and professional men. There were some cases, too, in which a report of the products of the farm could not be secured,

because the person in possession on June 1, 1900, was not the one who conducted the farm in 1899. To this extent the reports fall short of giving a complete statement of farm income in 1899.

LIVE STOCK.

At the request of the various live-stock associations of the country, a new classification of domestic animals was adopted for the Twelfth Census. The age grouping for neat cattle was determined by their present and prospective relations to the dairy industry and to the supply of meat products. Horses and mules are classified by age, and neat cattle and sheep, by age and sex. The new classification permits a very close comparison with previous census reports.

Table 14 presents a summary of live-stock statistics.

TABLE 14.—NUMBER OF DOMESTIC ANIMALS, FOWLS, AND BEES ON FARMS, JUNE 1, 1900, WITH TOTAL AND AVERAGE VALUES, AND NUMBER OF DOMESTIC ANIMALS NOT ON FARMS.

LIVE STOCK.	Age in years.		NOT ON FARMS.		
MYE STOCK.	nge in years.	Number.	Value.	Average value.	Num- ber.
Calves Steers Steers Steers Bulls Heifers Cows kept for milk Cows and heifers not	Under 1		\$549, 844 363, 652 329, 944 572, 244 198, 507 561, 321 4, 426, 709		3, 328 795 429 688 240 975 13, 577
kept for milk. Colts. Horses. Horses. Mile colts. Mules. Mules. Asses and burros. Lambs. Sheep (ewes). Sheep (rams and weth-	Under 1	5,807 5,927 147,419 8,076 5,600	675, 729 181, 675 233, 882 8, 430, 654 81, 927 256, 401 8, 838, 970 69, 460 124, 923 276, 389 76, 109	22. 68 39. 46 57. 18	874 128 203 15, 449 40 76 8, C61 92 287 616 615 219
ers). Swine Goats Fowls: 1		1,200,469 42,901	2, 516, 410 87, 997	0.89	40,009 1,124
Chickens ² Turkeys Geese Ducks Bees (swarms of)		3,871,858 120,737 284,424 102,942 244,539	1, 434, 158	1,76	
Value of all live stock:			80, 106, 173		

¹ The number reported is of fowls over 3 months old. The value is of all, old and young.
² Including Guinea fowls.

The total value of all live stock on farms, June 1, 1900, was \$30,106,173, of which amount 29.2 per cent represents the value of horses; 28.8 per cent, that of mules; 14.7 per cent, that of dairy cows; 10.8 per cent, that of other neat cattle; 8.3 per cent, that of swine; 4.8 per cent, that of poultry; and 3.4 per cent, that of all other live stock.

No reports were secured of the value of live stock not on farms, but it is probable that such animals have higher average values than those on farms. Allowing the same averages, the value of domestic animals not on farms would be \$1,503,897, which would make the value of all live stock in the state, exclusive of poultry and bees not on farms, approximately \$31,609,570.

CHANGES IN LIVE STOCK ON FARMS.

The following table shows the changes since 1850 in the number of the most important domestic animals.

TABLE 15.—NUMBER OF SPECIFIED DOMESTIC ANIMALS ON FARMS: 1850 TO 1900.

YEAR.	Dairy cows.	Other neat cattle.	Horses, Mules and asies.	Sheep.1	Swine.
1900	283, 178 223, 416 232, 133 196, 781 228, 623 221, 796	891, 840 407, 487 425, 298 824, 481 465, 187 471, 711	159, 158 131, 451 100, 011 133, 686 100, 011 102, 768 150, 661 150, 661 148, 693 148, 693	208, 812 402, 247 461, 688 468, 435 546, 749 595, 249	1,800,469 1,251,000 1,453,541 1,075,215 1,883,214 1,812,813

1 Lambs not included.

The numbers of domestic animals of all classes have fluctuated from decade to decade. During the Civil War period there was a marked decrease in every class, except that of mules and asses. Since then the number of all kinds of domestic animals, except sheep, has increased. Taking the half century as a whole, the numbers of dairy cows and horses have undergone no material change. Neat cattle other than dairy cows have decreased about 17 per cent. There are only about two-thirds as many swine as were reported in 1850, and not much more than one-third as many sheep. Mules and asses are more than five times as numerous as they were fifty years ago, and are the only class of domestic animals showing a marked increase.

For the decade 1890 to 1900, increases are shown as follows: Mules and asses, 36.4 per cent; horses, 21.1 per cent; dairy cows, 4.4 per cent; and swine, 4.0 per cent. Sheep and neat cattle other than dairy cows decreased in number 48.1 per cent and 4.0 per cent, respectively.

In comparing the poultry report of 1900 (see Table 14) with that of 1890 it should be borne in mind that in 1900 the enumerators were instructed to report no fowls under 3 months old. while no such restriction was made in 1890. This fact, considered in connection with the increase of 50.6 per cent in the number of eggs produced, indicates that the decreases in numbers of all kinds of fowls, as reported by the census, are more apparent than real. Compared with the figures for 1890, those of 1900 show decreases as follows: Chickens, 48.4 per cent; ducks, 39.2 per cent; turkeys, 38.8 per cent; and geese, 24.4 per cent.

ANIMAL PRODUCTS.

Table 16 is a summarized exhibit of the animal products of 1899

TABLE 16.—QUANTITIES AND VALUES OF SPECIFIED ANIMAL PRODUCTS, AND VALUES OF POULTRY RAISED, ANIMALS SOLD, AND ANIMALS SLAUGHTERED ON FARMS, IN 1899.

PRODUCTS.	Unit of measure.	Quantity.	Value.
Wool Mohair and goat hair Milk Hite Wool Milk Butter Cheese Eggs Poultry Honey Wax Animals sold Animals slaughtered	Pounds Gallons Pounds Pounds Dozens Pounds	11 89, 525, 749 16, 918, 802 28, 888 17, 704, 020 2, 477, 800 135, 920	2, 485, 252 7, 109, 655
Total			20,684,727

¹ Comprises all milk produced, whether sold, consumed, or made into butter or cheese.
² Comprises the value of butter and cheese and of all milk sold or consumed.

The total value of animal products for the state in 1899 was \$20,684,727, or 23.2 per cent of the value of all farm products, and 26.1 per cent of the gross farm income. The value of animal products for 1899 was more than two-thirds as great as that of all live stock on farms, June 1, 1900. Of the above amount, 46.4 per cent represents the value of animals sold and animals slaughtered on farms; 29.8 per cent, that of dairy products; 21.8 per cent, that of poultry and eggs; 1.3 per cent, that of honey and wax; and 0.7 per cent, that of wool, mohair, and goat hair.

ANIMALS SOLD AND ANIMALS SLAUGHTERED.

The value of animals sold and animals slaughtered on farms in 1899 was \$9,594,907, or 12.1 per cent of the gross farm income. Of all farms in the state reporting live stock, 68,473, or 32.2 per cent, report sales of live animals, the average receipts per farm being \$36.30. Animals slaughtered on farms are reported by 176,803 farmers, or 83.2 per cent of those reporting live stock, the average value per farm being \$40.21.

In obtaining these reports, the enumerators were instructed to secure from each farm operator a statement of the amount received from sales in 1899, less the amount paid for animals purchased during the same year.

DAIRY PRODUCE.

Of the \$6,175,397 given in Table 16 as the value of dairy products in 1899, \$5,447,873, or 88.2 per cent, represents the value of such products consumed on farms, and \$727,524, or 11.8 per cent, the amount received from sales. Of the latter amount, \$478,762 was received from the sale of 2,782,905 pounds of butter; \$242,968, from 1,826,631 gallons of milk; \$4,162, from 4,525 gallons of cream; and \$1,632, from 19,200 pounds of cheese.

In 1899, 34,275,084 more gallons of milk were reported than in 1889, a gain of 62.0 per cent. The quantity of butter made on farms increased 28.8 per cent in the same time, while the quantity of cheese made in 1899 was less than one-half as great as in 1889.

POULTRY AND EGGS.

There were 17,704,020 dozens of eggs reported in 1899, or 50.6 per cent more than in 1889. Of the \$4,500,086 given in Table 16 as the value of poultry and eggs, 59.8 per cent represents the value of poultry raised in 1899, and 40.2 per cent, that of eggs produced.

HONEY AND WAX.

The production of honey for 1899 was 2,477,800 pounds, and that of wax, 135,920 pounds, a gain of 4.4 per cent in honey and 7.5 per cent in wax, since 1889.

WOOL.

The production of wool has fluctuated from decade to decade, the report for 1900 showing an increase of 8.6 per

cent since 1890. This increase is more apparent than real owing to the fact that the fleeces from at least 79,674 sheep were omitted from the table in 1890, but included in a general estimate of wool shorn after the census enumeration.

HORSES, MULES, AND DAIRY COWS ON SPECIFIED CLASSES OF FARMS.

Table 17 presents, for the specified classes of farms, the number reporting horses, mules, and dairy cows, and the average number of these animals per farm. In computing the averages presented, only those farms which report the kind of stock under consideration are included.

Table 17.—HORSES, MULES, AND DAIRY COWS ON SPECIFIED CLASSES OF FARMS, JUNE 1, 1900.

	HORSES.		ми	MULES.		DAIRY COWS.	
OLASSES.	Farms report- ing.	Average per farm.	Farms report- ing.	Average per farm.	Farms report- ing.	Average per farm.	
Total	108, 160	1.5	88, 591	1.5	144,553	1.6	
White farmersColored farmers	89, 944 18, 216	$1.5 \\ 1.2$	69,864 18,727	1.6 1.2	124, 054 20, 499	1.7 1.8	
Owners 1 Managers Cash tenants Share tenants	72, 837 669 10, 188 24, 466	1.5 2.4 1.3 1.8	55, 587 616 9, 365 28, 028	1.6 3.8 1.4 1.8	97,599 694 9,115 37,145	1.7 8.5 1.4 1.3	
Under 20 acres	7,448 51,549 26,457 11,935 11,371	1.2 1.3 1.6 1.8 2.1	4,610 42,524 21,871 9,578 10,008	1.1 1.3 1.6 1.8 2.5	12,223 69,836 35,155 14,213 18,126	1.2 1.4 1.7 2.0 2.6	
Hay and grain Vegetables Fruit Live stock Dairy Tobacec Cotton Rice Miscellaneous 2	20, 480 1, 781 1, 112 13, 450 618 11, 745 20, 024 232 38, 823	1.6 1.4 1.7 2.0 1.4 1.7	14, 978 958 805 7, 881 9,089 25, 293 78 29, 188	1.6 1.6 1.5 1.6 1.9 1.4 1.5 1.6	29, 090 1, 374 1, 241 19, 203 917 11, 490 25, 660 174 55, 404	1.4 1.8 1.7 1.9 5.8 1.4 1.4 2.1	

¹ Including "part owners" and "owners and tenants."
² Including sugar farms, florists' establishments, and nurseries.

In North Carolina, as in other states where cotton is a staple crop and much of the farm labor is performed by negroes, large numbers of mules are used as work animals. For most classes of farms the average numbers of mules and horses are about equal, but on farms operated by managers, and on farms of the largest area, more mules than horses are reported. This is due to the fact that these two classes of farms include a relatively large number of cotton plantations.

If the numbers of horses and mules be combined, the average number of work animals per farm compares favorably with the corresponding figures for the more intensively cultivated farms of New England.

CROPS.

The following table gives the statistics of the principal crops of 1899.

TABLE 18.-ACREAGES, QUANTITIES, AND VALUES OF PRINCIPAL FARM CROPS IN 1899.

crops.	Acres.	Unit of measure.	Quantity,	Value.
Corn	2, 720, 206	Bushels	34, 818, 860	\$17,304,407
Wheat	746, 984	Bushels	4, 342, 351	3, 463, 726
Oats	270, 876	Bushels	2, 454, 768	991,516
Barley	475	Bushels	4, 237	2,835
Rye	28,074	Bushels	133, 780	86, 228
Buckwheat	5, 168	Bushels	52, 572	25, 482
Broom corn	67	Pounds	80, 490	1,501
Rice	22, 279	Pounds	7, 838, 580	203, 075
Kafir corn	2-, 2	Bushels	8	, 6
Flaxseed	2	Bushels	9	9
Clover seed		Bushels	331	1,347
Grass seed		Bushels	1, 315	2,574
Hay and forage	229, 998	Tons	429, 824	4,242,561
Cottonseed		Tons	1 205, 999	2, 290, 771
Cotton	1,007,020	Bales	459, 707	15,696,952
Tobacco	203, 023	Pounds	127, 508, 400	8,038,691
Hops	(2)	Pounds	85	12
Peanuts	95, 856	Bushels	3, 460, 489	1,852,110
Dry beans	5, 381	Bushels	49, 518	50, 703
Dry pease	88, 407	Bushels	876, 167	649, 194
Potatoes	23, 619	Bushels	1,686,445	862, 509
Sweet potatoes	68,730	Bushels	5,781,587	2,119,956
Onions Miscellaneous vegetables	836	Bushels	116, 841	86, 597
Miscellaneous vegetables	63,76 2			3,034,895
Maple sugar Maple sirup		Pounds	1, 180	117
Maple strup		Gallons	129	117
Sugar cane	25	Tons		54
Sombian cone	00 000	Gallons		1,008 17,083
Sugar cane sirup Sorghum cane Sorghum sirup	20, 227	Tons Gallons		
Small fruits	6,887	Ganons	1,419,570	429, 814
Grapes		Centals	123, 440	599, 963 5197, 262
	4 158, 937	Bushels	5, 124, 959	⁶ 1, 269, 614
Orchard fruits Tropical fruits	100,907	Tousners	0,124,000	446
Nuts				8, 413
Forest products				4, 921, 740
Flowers and plants	61			31, 163
Seeds	189			8, 882
Nursery products	1.149			135, 084
Miscellaneous	80			2, 494
				-, 101
Total	5,769,954			68, 624, 911

¹ Exclusive of 10,510 tons, valued at \$116,871, sold in seed cotton and in-

Of the total value of crops in 1899, cotton, including seed, constituted 26.2 per cent; corn, 25.2 per cent; other cereals, including rice, 7.0 per cent; vegetables, including potatoes, sweet potatoes, and onions, 8.9 per cent; forest products, 7.2 per cent; fruits and nuts, 3.0 per cent; hay and forage, 6.2 per cent; and all other products, 16.3 per cent.

The acreage devoted to corn constituted 47.1 per cent of the total area in crops and yielded 25.2 per cent of the total receipts, while cotton, occupying but 17.5 per cent of the total acreage, yielded 26.2 per cent of the total receipts.

The average values per acre of crops were as follows: Flowers and plants, \$510.87; nursery products, \$117.57; onions, \$103.58; tobacco, \$39.59; potatoes, \$36.52; sweet potatoes, \$30.84; hay and forage, \$18.45; cotton, including seed, \$17.86; peanuts, \$19.32; orchard fruits, \$7.99; dry beans and dry pease, \$7.46; and cereals, including rice, \$5.82. The crops yielding the greatest returns were grown upon highly improved land and their production required relatively large expenditures for labor and fertilizers.

CEREALS.

Table 19 is an exhibit of the changes in cereal production since 1849.

TABLE 19.—ACREAGE AND PRODUCTION OF CEREALS: 1849 TO 1899.

PART 1.-ACREAGE.

YEAR.1	Barley,	Buckwheat.	Corn.	Oats,	Rye.	Wheat.
1899	475	5, 168	2, 720, 206	270, 876	28, 074	746, 984
1889	302	1, 800	2, 360, 627	541, 851	56, 496	666, 509
1879	230	5, 725	2, 305, 419	500, 415	61, 953	646, 829

¹ No statistics of acreage were secured prior to 1879.

PART 2.—BUSHELS PRODUCED. .

				· · · · · · · · · · · · · · · · · · ·	
1879 2 1869 3 1859 3	1, 237 52, 572 2, 521 12, 621 2, 421 44, 668 3, 186 20, 109 3, 445 35, 924 2, 735 16, 704	84, 818, 860 25, 783, 623 28, 019, 839 18, 454, 215 30, 078, 564 27, 941, 051	2, 454, 768 4, 512, 762 3, 838, 068 3, 220, 105 2, 781, 860 4, 052, 078	183, 780 276, 889 285, 160 852, 006 436, 856 229, 568	4,842,851 4,292,035 3,397,893 2,859,879 4,743,706 2,130,102

The total area devoted to cereals in 1879 was 3,520,571 acres; in 1889, 3,627,585 acres; and in 1899, 3,771,783 acres. Of the total area in 1899, 72.1 per cent was devoted to corn; 19.8 per cent, to wheat; 7.2 per cent, to oats; and 0.9 per cent, to rye, buckwheat, and barley. The percentages of increase in the acreages devoted to the several cereals in the last decade were as follows: Corn, 15.2 per cent; wheat, 12.1 per cent; buckwheat, 187.1 per cent; and barley, 57.3 per cent. The acreage of oats and rye decreased 50.0 per cent and 50.3 per cent, respectively.

A comparison by counties shows that the acreage in corn increased between 1889 and 1899 in nearly every county. The largest acreages were reported by Robeson, Johnston, and Sampson counties. About one-third of the wheat was grown in the counties of the Yadkin River Valley. The production of this cereal has increased steadily since 1869 but the average yield per acre remains comparatively low. The acreage devoted to oats in 1899 was less than one-half as great as that reported for 1889. While this marked decrease was doubtless due, in a large measure, to severe drought in the spring of 1899, it is believed that the crop is not so generally cultivated as it was ten years ago. Rye has decreased steadily in importance since 1859. Neither barley nor buckwheat is grown extensively; the acreages and productions of both have fluctuated widely from decade to decade with a general upward tendency.

The total number of bushels of grain produced in 1849 was 34,372,233; in 1889, 34,880,901, and in 1899, 41,806,518. Comparisons between the crops of the different years have little significance, however, as the production depends to a great extent upon the nature of the season.

RICE.

In addition to the cereals given in Table 19, rice was grown in 1899 by 5,248 farmers, who reported 22,279 acres of land, and a yield of 7,838,580 pounds, valued at \$203,075. There was an increase in ten years of 82.0 per cent in acreage, and of 34.9 per cent in production, the crop being the largest ever reported.

cluded with the cotion.

Less than 1 acre.

Sold as cane.

Estimated from number of vines or trees.

⁵ Including value of raisins, wine, etc. ⁶ Including value of eider, vinegar, etc.

The average yield per acre was 352 pounds, and the average value for each farm reporting was \$39.

The crop was grown in 45 counties, but 76.4 per cent of the acreage was furnished by the 7 counties of Beaufort, Brunswick, Camden, Hyde, Pasquotank, Perquimans, and Tyrrell, lying on the coast, and on the Albemarle and Pamlico sounds.

COTTON.

The following table shows the changes in cotton production since 1849.

Table 20.—ACREAGE AND PRODUCTION OF COTTON: 1849 TO 1899.

	ACREA	AGE.	PRODUCTION.		
YEAR.	Total.	Per cent of increase.	Commer- cial bales.	Pounds.	Per cent of increase.
1899 1889 1879 1869 1859 1849	1,007,020 1,147,186 893,153	1 12, 2 28, 4	459,707 836,261 389,598	216, 506, 930 160, 396, 497 176, 487, 894 62, 901, 790 64, 753, 730 29, 538, 000	35, 0 1 9, 1 180, 6 1 2, 9 119, 2

1 Decrease.

The production of cotton in North Carolina has fluctuated greatly since 1849. In 1859 the quantity reported was more than twice that produced in 1849, while during the next decade, when the Civil War affected all industrics, there was a decrease of 2.9 per cent. The reports for 1879 showed a great increase in production. This was followed in the next decade by a slight decrease, notwithstanding an increase of 28.4 per cent in acreage. But in the decade just completed, the production increased 35.0 per cent, while the acreage decreased 12.2 per cent.

In 1899, 105,766 farmers devoted to the cultivation of cotton a total area of 1,007,020 acres, or 12.1 per cent of the total improved farm land, and an average of 9.5 acres per farm reporting. The total production was 216,506,930 pounds, an average of 215 pounds per acre and 114 pounds per capita.

The counties reporting the greatest area under cotton are Mecklenburg, Robeson, Wake, Union, Johnston, Anson, Halifax, Wayne, Cleveland, and Edgecombe, ranking in the order named, and reporting in the aggregate 42.6 per cent of the total acreage. These counties are located in the central and southwestern parts of the state.

· HAY AND FORAGE.

In 1900, 141,532 farmers, or 63.0 per cent of the total number, reported hay or forage crops. Exclusive of cornstalks and corn strippings, an average yield of 1.07 tons per acre was obtained. The total number of acres devoted to hay and forage in 1899 was 229,998, or 20.6 per cent more than ten years before.

In 1899 the acreages and yields of the various kinds of hay and forage were as follows: Wild, salt, and prairie grasses, 17,462 acres and 21,236 tons; millet and Hungarian grasses, 1,959 acres and 2,705 tons; alfalfa or lucern, 243 acres and 392 tons; clover, 27,238 acres and

28,290 tons; other tame and cultivated grasses, 122,879 acres and 122,411 tons; grains cut green for hay, 51,772 acres and 56,780 tons; crops grown for forage, 8,445 acres and 15,006 tons; cornstalks and corn strippings, 843,557 acres and 183,004 tons.

In Table 18 the production of cornstalks and corn strippings is included under "hay and forage," but the acreage is included under "corn," as the forage secured was an incidental product of the corn crop.

ORCHARD FRUITS.

The changes in orchard fruits since 1890 are shown in the following table.

TABLE 21.—ORCHARD TREES AND FRUITS: 1890 AND 1900.

	NUMBER	OF TREES.	BUSHELS OF FRUIT.		
fruits.	1900.	1890.	1899.	1889.	
Apples Apricots Cherries Peaches Peurs Plums and prunes	6, 438, 871 2, 549 174, 295 2, 773, 788 138, 836 183, 481	4, 249, 468 5, 096 111, 774 2, 188, 004 44, 902 51, 341	4, 602, 751 245 38, 899 378, 663 25, 521 22, 074	7, 591, 541 1, 915 45, 918 2, 740, 915 88, 910 15, 516	

Increases are shown for the decade in numbers of trees as follows: Apple, 51.5 per cent; peach, 30.0 per cent; cherry, 55.9 per cent. Plum and prune and pear have increased more than threefold. The number of apricot trees decreased about one-half.

Of all trees reported in 1900, 66.1 per cent were apple trees; 28.5 per cent, peach trees; and the remainder, 5.4 per cent, plum, prune, pear, cherry, apricot, and unclassified trees; the latter class, which is not included in the table, numbering 22,389 trees and yielding 6,806 bushels of fruit.

Most of the fruit trees are reported from the western part of the state, Guilford ranking among the leading counties in all varieties. Moore, Burke, and Guilford counties reported about one-eighth of the peach trees, and Wilkes, Buncombe, Surry, Guilford, and Haywood reported about one-sixth of the apple trees.

The value of the orchard products given in Table 18 includes the value of 7,651 barrels of eider, 3,298 barrels of vinegar, and 2,744,450 pounds of dried and evaporated fruits.

SEMITROPICAL FRUITS.

In 1900, 1,019 farms representing 66 counties reported 5,057 fig trees. The total amount of fruit produced was 14,510 pounds, valued at \$446. Although fig trees are grown generally throughout the state, those yielding fruit in 1899 were located in 36 counties, principally in the eastern half of the state. Halifax county reported one-fourth of the trees and fruit produced.

SMALL FRUITS.

The total area used in the growing of small fruits was 6,837 acres, distributed among 10,873 farms. The value of the fruit produced was \$599,963, an average of \$55.18 per farm. Of the total area, 5,616 acres, or 82.1 per cent,

were devoted to strawberries, of which the total production was 10,674,610 quarts. Over three-fourths of the acreage in this fruit was in the adjoining counties of Duplin, Pender, Sampson, and Wayne. The acreage and production of other berries were as follows: Blackberries and dewberries, 1,073 acres and 1,089,290 quarts; raspberries and Logan berries, 69 acres and 78,050 quarts; currants, 28 acres and 32,360 quarts; gooseberries, 25 acres and 30,340 quarts; and other berries, 26 acres and 29,410 quarts.

VEGETABLES.

The value of the vegetables grown in 1899, including potatoes, sweet potatoes, and onions, was \$6,103,957, or 7.7 per cent of the gross farm income. Of this amount 49.7 per cent represents the value of miscellaneous vegetables; 34.8 per cent, that of sweet potatoes; 14.1 per cent, that of Irish potatoes; and 1.4 per cent, that of onions.

Sweet potatoes were grown in 1899 by 112,951 farmers, or approximately one-half the total number in the state. The area devoted to this crop in 1889 was 71,752 acres, and in 1899, 68,730 acres, a decrease of 4.2 per cent. The total crop was 5,781,587 bushels, an average of 84.1 bushels per acre. The leading counties are Columbus, Sampson, Johnston, Beaufort, Brunswick, Duplin, and Robeson, ranking in the order named.

Aside from the land devoted to potatoes, sweet potatoes, and onions, 63,762 acres were used in the growing of miscellaneous vegetables. The products of 38,566 acres were not reported in detail; of the remaining area, 9,814 acres were devoted to watermelons; 9,747, to cabbages; 1,729, to muskmelons; 1,166, to tomatoes; 626, to beans; 611, to cucumbers; 610, to sweet corn; and 893 acres to other vegetables.

PEANUTS.

Peanuts were grown in 1899 by 19,685 farmers, who devoted 95,856 acres to their cultivation. The total production was 3,460,489 bushels, an average of 36.1 bushels per acre. In the last decade the gain in acreage was fourfold, and that in production sevenfold. Of the total acreage, 66.6 per cent was reported from the 6 northeastern counties of Bertie, Halifax, Northampton, Hertford, Martin, and Edgecombe, ranking in the order named. The area devoted to peanut growing has increased at least tenfold since 1889 in each of these counties, while Bertie county shows a gain from 528 acres to 14,499 acres, or about twenty-sevenfold.

TOBACCO.

According to the census of 1850, North Carolina produced in 1849, 11,984,786 pounds of tobacco. The production in 1859 was nearly three times as great, while the crop of 1869 fell below that of 1849. In the two succeeding decades, there were large increases, amounting to 15,836,126 pounds, or 142.0 per cent, between 1870 and 1880, and to 9,889,045 pounds, or 34.8 per cent, between 1880 and 1890.

In 1899 tobacco was grown in North Carolina by 51,106 farmers, who obtained from 203,023 acres a yield of 127,503,400 pounds, valued at \$8,038,691. The average value per pound was 6.3 cents. The increase in area in the last decade was 105,946 acres, or 109.1 per cent, and that in production 91,128,142 pounds, or 250.5 per cent. The average yield per acre in 1899 was 628 pounds, against 375 pounds in 1889, and 472 pounds in 1879.

Of the 86 counties reporting the cultivation of tobacco in 1899, the county having the largest acreage was Rockingham, with 16,882 acres. Pitt county reported the largest production, 10,733,010 pounds, and was closely followed by Rockingham, Nash, Wilson, Stokes, Granville, Franklin, Caswell, Greene, and Person counties in the order named. The 12 leading counties of the state contained 61.3 per cent of the entire acreage in tobacco and contributed 63.0 per cent of the total production.

SUGAR CANE AND SORGHUM CANE.

In 1899, 57 farmers raised 25 acres of sugar cane, from which they sold 11 tons of cane for \$54, and manufactured from the remaining cane 1,957 gallons of sirup, valued at \$1,008. The entire crop of cane reported was grown in Columbus county. Previous to the present census no cane, sugar, or sirup had been reported from the state since 1869, in which year 42,000 pounds of sugar, and 33,888 gallons of sirup were produced.

In 1899, 20,227 acres of sorghum cane were grown by 48,214 farmers, an average of 0.42 acre for each farm reporting. From this area 5,980 tons of cane were sold for \$17,083, and from the remaining cane 1,419,570 gallons of sirup, valued at \$429,814, were manufactured. This was a decrease since 1889 of 16.0 per cent in acreage and an increase of 150,624 gallons, or 11.9 per cent in production of sirup. The total value of sorghum cane products for 1899 was \$446,897, an average of \$9.27 for each farm reporting. The sorghum crop was distributed quite uniformly over 93 counties of the state.

FLOWERS AND PLANTS.

In 1899 the operators of 58 farms raised flowers and plants valued at \$31,163. Of this number, 15 were commercial florists, who reported a gross income of \$25,234, of which \$23,909 was derived from the sale of flowers and plants, and \$1,325 from other products. The capital invested was \$67,095—\$39,585 in land, \$26,255 in buildings and other improvements, \$615 in implements, and \$640 in live stock. The expenditure for fertilizers was \$165, and that for labor \$4,060.

A total of 186,900 square feet of land under glass was reported by the operators of 139 farms, including the 15 florists, who reported 61,444 square feet.

NURSERIES.

The 25 nurserymen in the state reported a gross income of \$129,714, of which amount \$118,509 was derived from the sale of trees, shrubs, and plants, and \$11,205 from other products. The total area of land used was 2,441 acres, making the gross income per acre \$53.14. The value of

land was \$63,800; that of buildings and other improvements, \$28,959; that of implements and machinery, \$4,935; and that of live stock, \$3,800. The expenditures for labor and fertilizers were \$27,549 and \$3,636, respectively.

LABOR AND FERTILIZERS.

The total expenditure for labor on farms in 1899, including the value of board furnished, was \$5,444,950, an average of \$24 per farm. The average was highest on the most intensively cultivated farms, having been \$1,102 for nurseries, \$271 for florists' establishments, \$70 for dairy farms, \$51 for fruit farms, \$48 for vegetable farms, \$38 for tobacco farms, \$38 for rice farms, \$32 for cotton farms, \$15

for live-stock farms, \$14 for hay and grain farms, and \$5 for sugar farms. "Managers" expended on an average, \$335; "owners," \$29; "cash tenants," \$22; and "share tenants," \$13. White farmers expended \$29 per farm, and colored farmers, \$9.

Fertilizers purchased in 1899 cost \$4,479,030, or an average of \$20 per farm, and an increase since 1890 of \$1,596,792, or 55.4 per cent. The average expenditure in 1899 was greatest for nurseries, amounting to \$145. For vegetable farms the average was \$43; for tobacco farms, \$42; for dairy farms, \$15; for florists' establishments, \$11; for hay and grain farms, \$11; for sugar farms, \$9; for live-stock farms, \$7; and for rice farms, \$5.

IRRIGATION STATISTICS.

Irrigation in North Carolina is practiced principally in the cultivation of rice in the tide-water districts. With the exception of a few inland basins or flats, dependent on reservoirs for water supply, the entire crop of irrigated rice is planted along the tide-water rivers, which are fresh, where there is sufficient oscillation of the tides to afford the means of flooding and draining the dike-protected lands.

The rice fields are divided by check banks into sections ranging in area from 5 to 30 acres each, which are subdivided by ditches into beds. Each section is provided with a wooden trunk or box built under the dikes, with a door at each end by means of which the ingress and egress of the water is controlled. These trunks are from 30 to 40 feet long, and from 3 to 4 feet wide, with a depth of 16 inches. In flooding the field, the outer door is hoisted, and as the tide rises the water comes in through the trunk and passes through the ditches. When the tide begins to recede, the inner door is closed and the water is securely stored. To drain the field thoroughly, it is only necessary to open the inner doors at low tide.

The average first cost per acre of preparing rice lands

for irrigation, including the cost of constructing dikes, trunks, check banks, and ditches, is \$34.35.

The principal rice-growing counties in 1899 were Hyde, with 2,203,606 pounds; Brunswick, with 1,215,814 pounds; Pasquotank, with 748,876 pounds; Perquimans, with 573,256 pounds; and Camden, with 556,254 pounds. The total production of the 5 counties was 5,297,306 pounds, or 67.0 per cent of the total crop of the state.

A considerable area of land in Hyde county is irrigated by pumping from Mattamuskeet Lake, situated near the center of the county. The surface of the county is low and flat, and some of the rice land is below the level of the lake, and can be irrigated simply by cutting ditches from the lake to the farms. The highest lift required to irrigate any of the contiguous land is 4 feet. Rice grown in this section is of a superior quality. Land lying below the level of the lake can be irrigated at very little expense, one rice grower reporting that the entire cost of his irrigation plant, including engine, elevator, etc., was but \$500. The area irrigated by this grower was 300 acres, and the average cost per acre for labor and fuel was 75 cents.